

## ABSTRACT

A system and a method for tracking a location of a private wireless network subscriber can precisely track and find out a location of a subscriber even within a service zone of a base station and can realize this precise tracking in a simple fashion. In a private wireless network having a plurality of repeaters dispersedly installed in sector zones of a private Base Transceiver Station (pBTS), the subscriber location tracking system of the present invention includes a private Base Station Controller (pBSC) connected to the pBTS and a Local Area Network (LAN) and having a Visitor Location Register (VLR), a server connected to the LAN, and at least one client connected to the LAN. The pBSC stores location information in the VLR when a mobile station executes location registration, and confirms a location and state of a mobile station by dummy paging and updates its location information stored in the VLR when the relevant mobile station keeps up an idle state during a certain period. The server inquires about the location information stored in the VLR and transmits it to the client. The client receives location information from the server and provides a user with a location and state of a mobile station according to the received location information.